

**PATENT**  
**INSTITUT FRANCAIS DU PETROLE**

**PROCESS AND APPARATUS FOR THE PRODUCTION OF CATALYTIC**  
**5                    CRACKING GASOLINE WITH A LOW SULPHUR CONTENT**

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**ABSTRACT**

10                    The invention concerns a process for the treatment of catalytic cracking  
gasolines comprising:

- fractionating the raw gasoline cut into two cuts;
- optional selective diene hydrogenation in the light cut, then mild hydrotreatment  
15                    and stripping;
- sweetening the light cut which takes place before the mild hydrotreatment step  
by contact with a supported catalyst containing 0.1-1% of palladium, or which  
takes place after the mild hydrotreatment step and which is then an extractive  
sweetening step, or with a catalyst having an alkaline base which may or may  
20                    not be incorporated, also an oxidizing agent.

The heavy gasoline fraction is optionally desulphurized in a hydrotreatment  
unit.

The desulphurized and sweetened light gasoline can be added to the  
gasoline pool either directly or mixed with the desulphurized heavy gasoline cut.

25                    The invention also concerns an apparatus for carrying out the process.

Figure 1 to be published.

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